

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-2 (canceled).

Claim 3 (currently amended): The device according to claim ~~2~~ 16, wherein the deflection optical system comprises a reflection prism.

Claim 4 (currently amended): The device according to claim ~~2~~ 16, wherein the deflection optical system comprises a surface mirror.

Claim 5 (canceled).

Claim 6 (currently amended): The device according to claim ~~2~~ 16, wherein the lens is a standard lens having an equalization length of 45 mm.

Claim 7 (currently amended): The device according to claim ~~2~~ 16, wherein the lens possesses an equalization length that is less than 45 mm.

Claim 8 (currently amended): The device according to claim ~~2~~ 16, wherein the lens can be moved by means of a piezo setting element.

Claim 9 (currently amended): The device according to claim ~~2~~ 16, wherein the lens can be moved by means of a stepper motor.

Claim 10 (canceled).

Claim 11 (currently amended): The device according to claim ~~10~~ 16, wherein the attachment device possesses a clamping connection or screwed connection to the cylinder.

Claim 12 (currently amended): The device according to claim ~~10~~ 16, wherein the microscope can be moved into the cylinder by means of a linear guide.

Claim 13 (previously presented): The device according to claim 12, wherein the microscope is adjustable and can be fixed in place with regard to the insertion depth, by means of the linear guide.

Claim 14 (currently amended): The device according to claim ~~10~~ 16, wherein the attachment device or the adjustment device allows a rotation about the cylinder axis.

Claim 15 (currently amended): The device according to claim ~~10~~ 16, wherein the attachment device allows an adjustment of the distance between the lens and the internal surface of the cylinder.

Claim 16 (new): A device for producing three-dimensional surface images of internal surfaces of cylinders in engine blocks comprising a computer-controlled confocal microscope having a microscope body, a tube attached to the microscope body and having a lens, which is preceded by a deflection optical system having a horizontal translator, wherein the deflection optical system deflects the beam by less than 90 degrees and further having a device for attaching and adjusting the computer-

controlled confocal microscope to be moved into the cylinders in engine blocks, to measure the internal surface of the cylinders.

Claim 17 (new). The device according to claim 16, wherein the microscope body comprises a motor-driven Nipkow disk, a beam splitter, a light source, and a CCD camera.